APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC (BNL-tr-401) RELATIVE MEASUREMENTS OF anti nu IN THE ^{235}U AND ^{239}Pu FISSION INDUCED BY RESONANCE NEUTRONS. Ryabov, Yu. V.; Sik, So Don; Chikov, N.; Yaneva, N. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P3-5297, 21p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC [4](ORNL-tr-2503) [5]INTERACTION OF RELATIVISTIC DEUTERIUM AND TRITIUM NUCLEI WITH THE PHOTOEMULSION. [6]Barashenkov, V. S.; Il'inov, A. S.; Toneev, V. D. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated for Oak Ridge National Lab., Tenn., from report [11]JINR-P3-5548. [20]9p. [24]Dep. NTIS.

[25]

[26]physics (nuclear); translations [27]20H

[28]MN-34 [29]P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

NTC 72-14293 18T

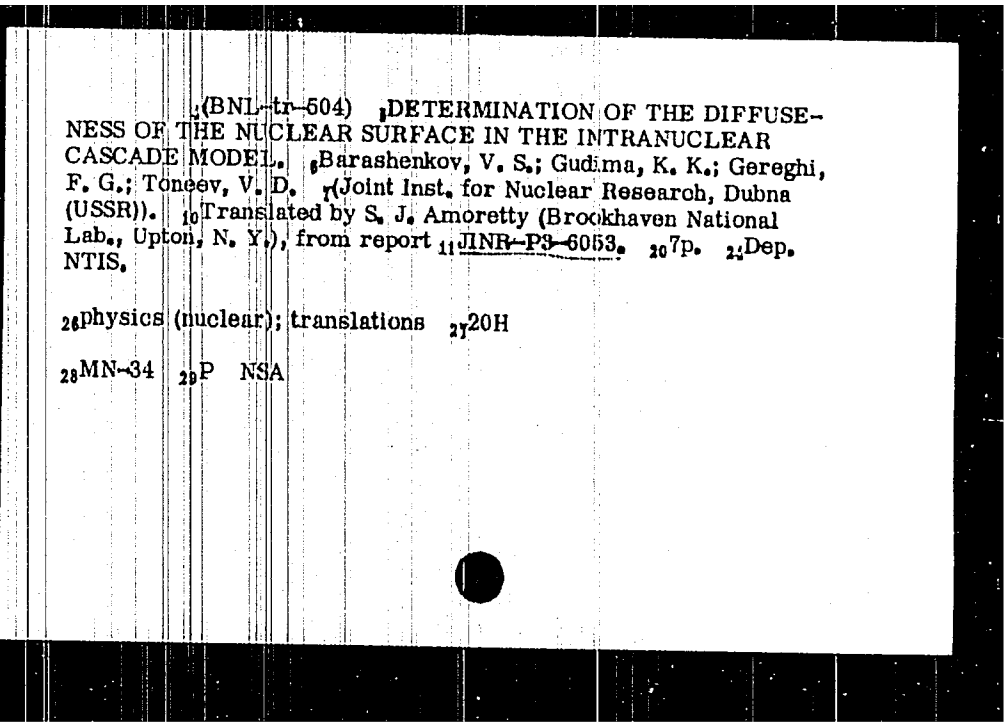
(AEC 4(BNL-tr-473) 5DEVELOPMENT AND APPLICATION OF THE IBR PULSED REACTOR IN SCIENTIFIC RESEARCH. 6Frank, I. M. 7(Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Neutron Physics). 10Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report 11JINR-P3-5754. 2087p. 24Dep. NTIS.

26reactors-research; translations 27I8M

28MN-80 29P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2



(BNL-tr-504) DETERMINATION OF THE DIFFUSENESS OF THE NUCLEAR SURFACE IN THE INTRANUCLEAR CASCADE MODEL. Barashenkov, V. S.; Gudima, K. K.; Gereghi, F. G.; Toneev, V. D. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P3-6053. 7p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Incoherent Scattering of Slow Neutrons in Polarized Target, by V. G. Baryshevskii, V. L. Lyuboshits, M. I. Podgoretskii.
RUSSIAN, per, JINR-P4-3158, 9pp
AEC BNL-tr-139

Sci - Phys
Sept 67 342,289

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Two-Center Problem of Quantum Mechanics III.
Term Tables, by L. I. Ponomarev & T. P. Puzynina.
RUSSIAN, rpt., Joint Institute for Nuclear Research,
No P4-3175, 1966, 67 pp.
AEC-SC-T-67-0953

PB11013568

Sci/Math
Apr 68

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Direct and Inverse Photonuclear Reactions on N^{15} and O^{15} Nuclei, by L. A. Zhusupov and R. A. Yeranzhyan, 12 pp.
RUSSIAN, rpt, JINR-P4-3674, 1968.
AEC-tr-L-Tr-218 P91125 3068-V

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Approximate Analytical Solution for Equations in Problems of Quantum Mechanics, by I. V. Amirkhanov. 9 pp. RUSSIAN, rpt, JINR-P4-3741. NASA TT F-12,079

Sci-Math
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[4](NRC-TT-1426) [5]MESOATOMIC PROCESSES AND A MODEL OF LARGE MESIC MOLECULES (REVIEW). [6] Gershtein, S. S.; Petrukhin, V. I.; Ponomarev, L. I.; Prokoshkin, Yu. D. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10] Translated from report [11]JINR-P4-3860, [20]51p. [23]Dep. NTIS (U. S. Sales Only).

[25]

[26]physics (particle); translations [27]20H

[28]MN-34 [29]NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Probabilities of $E\lambda$ Transitions and Allowed β Decay in Odd-mass Deformed Nuclei, by F. A. Gareyev, S. P. Ivanova, 7 pp.
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AEC/BNL-Tr-285-69

Sci/Phy
Dec 69 398,060

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

On the theory of Order-Disorder Transition in Solid Ortho-Hydrogen, by K. Valyasek. 10 pp.
RUSSIAN, r.t. JINR-P4-4182
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sci/physics
oct 69

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Wave Diffraction in the Presence of Some Refractive Indices, by V. G. Maryshevskiy, I. N. Koreshaya. 9 pp.
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CFSTI

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC (KFK-tr-313) EQUILIBRIUM DEFORMATION OF NUCLEII WITH NEUTRON EXCESS IN THE REGION A approximately 100. Arsen'ev, D. A.; Sobiczewski, A.; Solov'ev, V. G. (Akademiya Nauk SSSR, Moscow. Radiotekhnicheskii Institut). Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, W. Ger.), from report JINR-P4-4660. 18p. (In German). Dep. CFSTI (U. S. Sales Only).

physics (nuclear); translations 20H

MN-34 NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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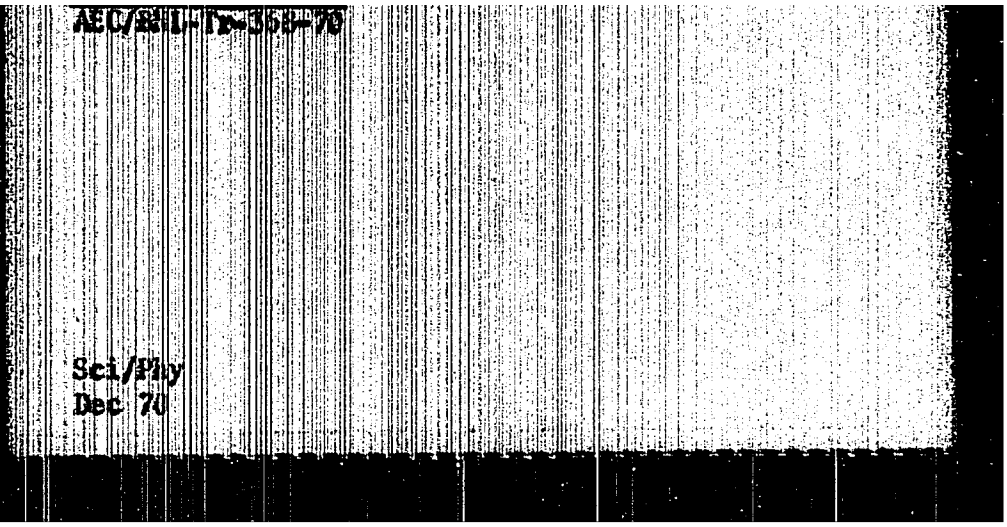

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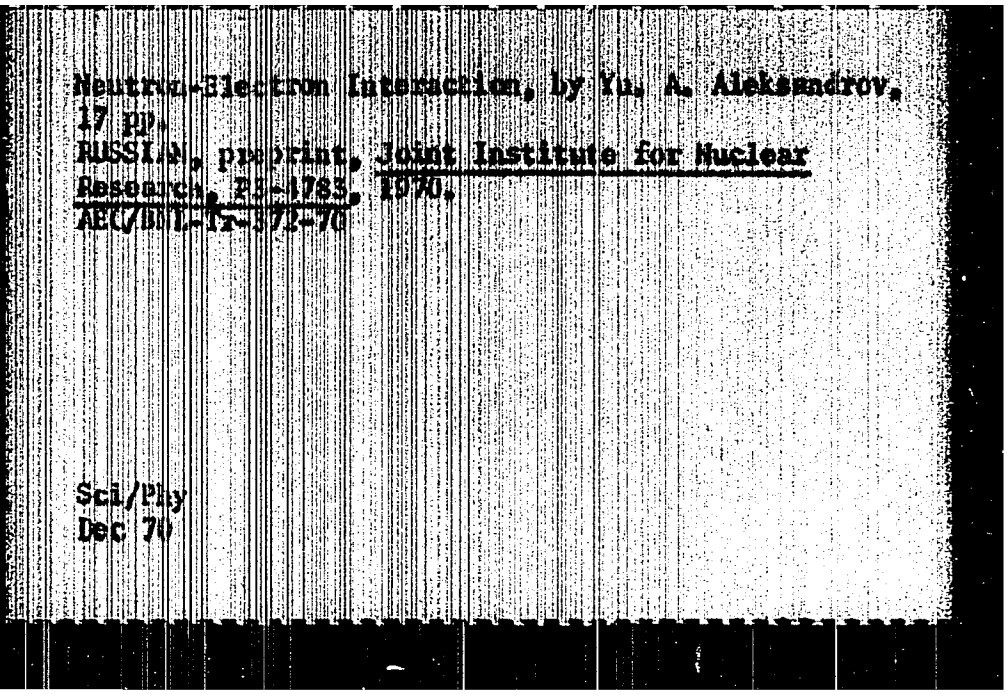

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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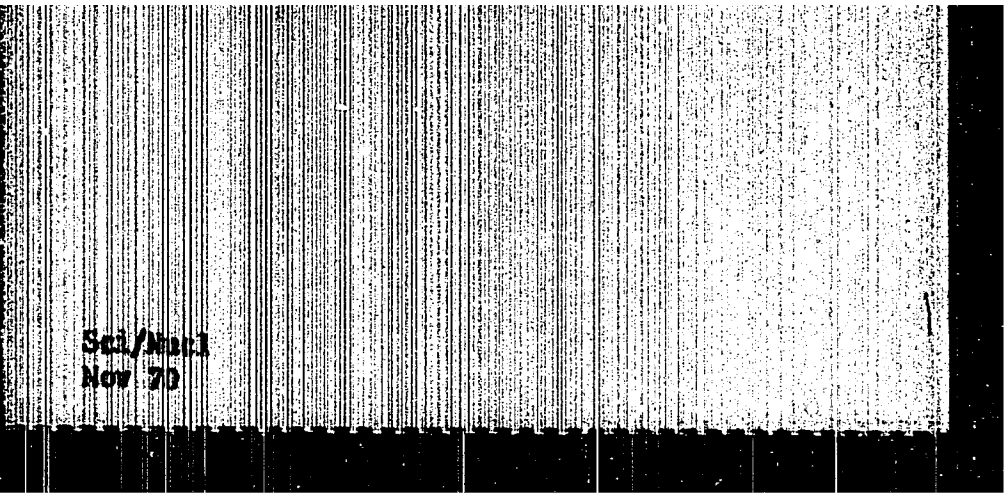


APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

(BNL-tr-368) NUCLEON-NUCLEON INTERACTION AND THE AVERAGE NUCLEAR FIELD. Babikov, V. V. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P4-4897. 29p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

[redacted]

(BNL-tr-416) SINGLE-PARTICLE STATES OF DEFORMED TRANSURANIUM NUCLEI IN THE SAXON-WOODS POTENTIAL. Gareev, F. A.; Ivanova, S. P. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P4-5221. 25p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

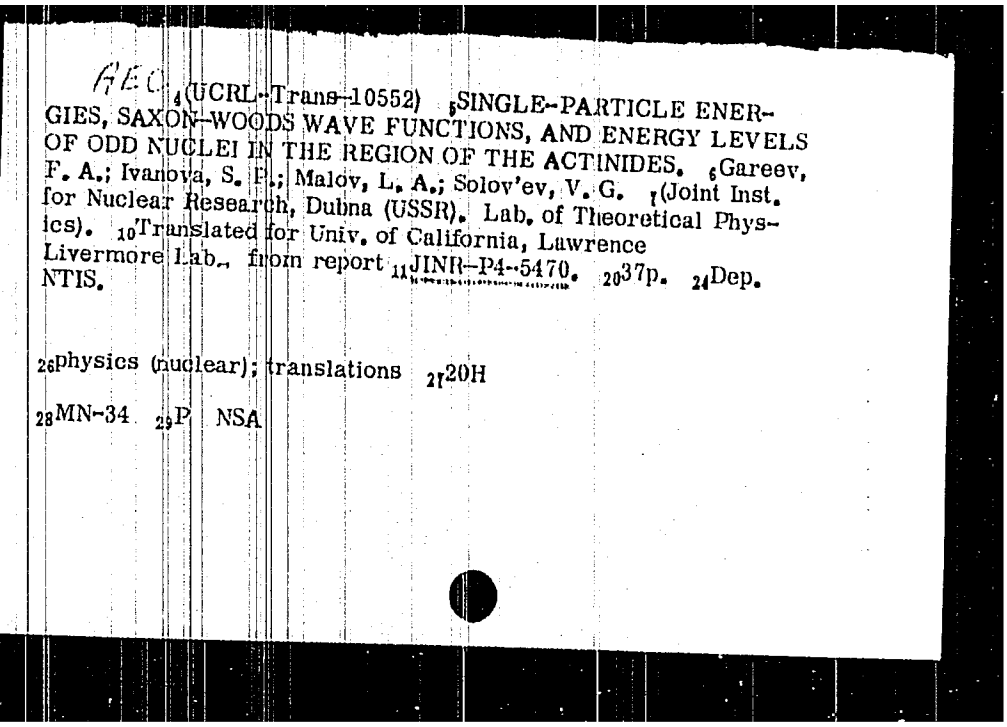
[redacted] (UCRL-Trans-10583) MONOPOLE ($I/sup pi/ equals 0^{+}$) EXCITATIONS IN EVEN-EVEN DEFORMED NUCLEI. Pyatov, N. I. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics). Translated for Univ. of California, Lawrence Livermore Lab., Livermore, from report JINR-P4-5422. 33p. (CONF-700635-1). Dep. NTIS.
From 2. symposium on the problems of nuclear physics; Novosibirsk, USSR (12 Jun 1970).

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2



AEC (UCRL-Trans-10552) SINGLE-PARTICLE ENERGIES, SAXON-WOODS WAVE FUNCTIONS, AND ENERGY LEVELS OF ODD NUCLEI IN THE REGION OF THE ACTINIDES. Gareev, F. A.; Ivanova, S. P.; Malov, L. A.; Solov'ev, V. G. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics). Translated for Univ. of California, Lawrence Livermore Lab., from report JINR-P4-5470. 20 37p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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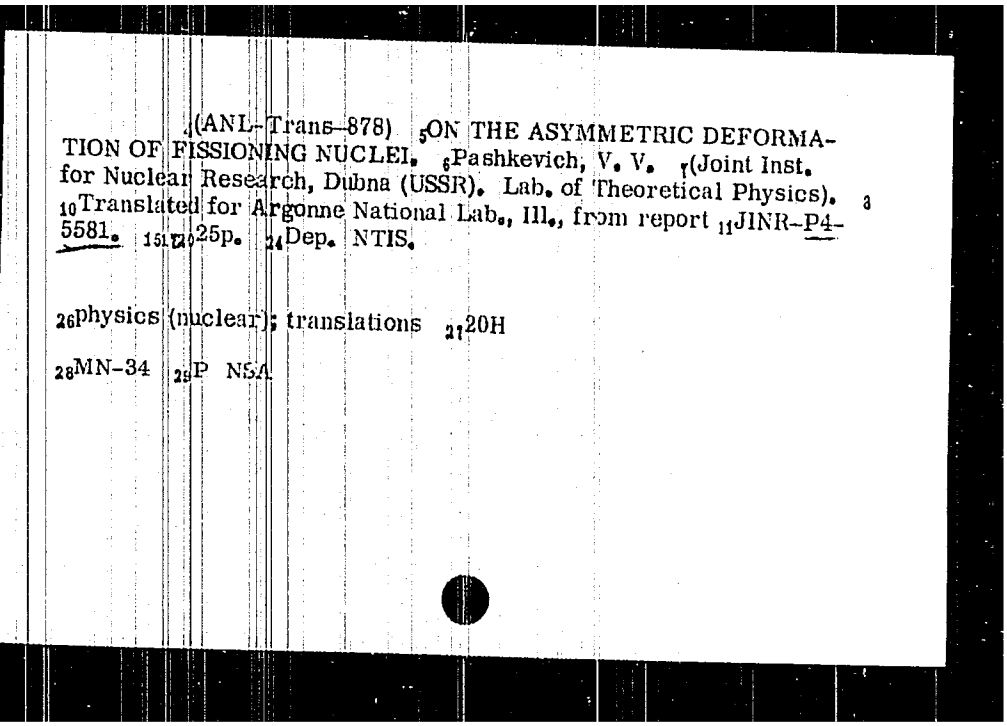

(ANL-Trans-878) ON THE ASYMMETRIC DEFORMATION OF FISSIONING NUCLEI. Pashkevich, V. V. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics). Translated for Argonne National Lab., Ill., from report JINR-P4-5581. 25p. Dep. NTIS.

Physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC- (BNL-tr-417) ON THE CORRELATION BETWEEN THE REDUCED NEUTRON WIDTHS AND PARTIAL RADIATION WIDTHS IN RESONANCES. Solov'ev, V. G. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P4-5583. 1511210p. Dep. NTIS.

Physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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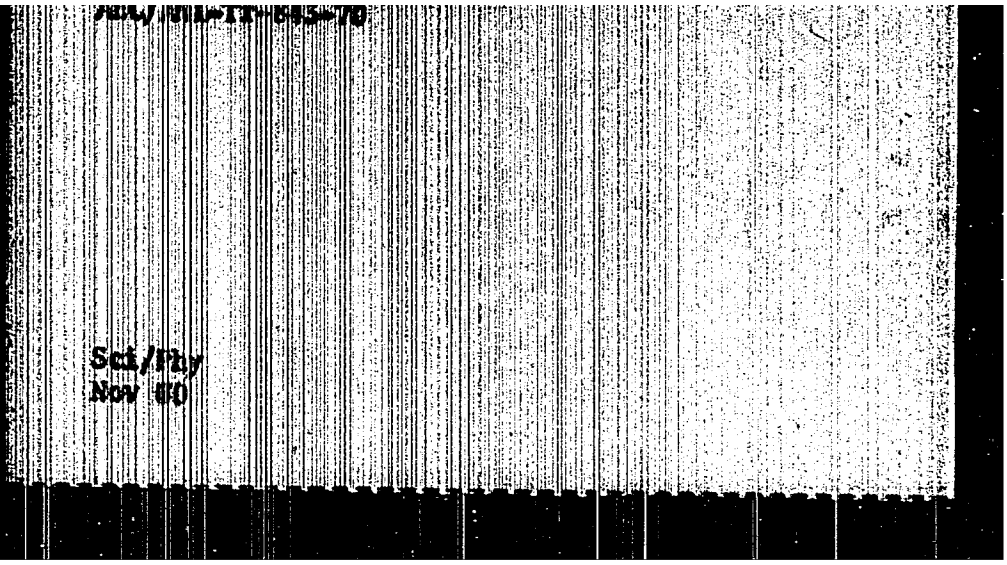

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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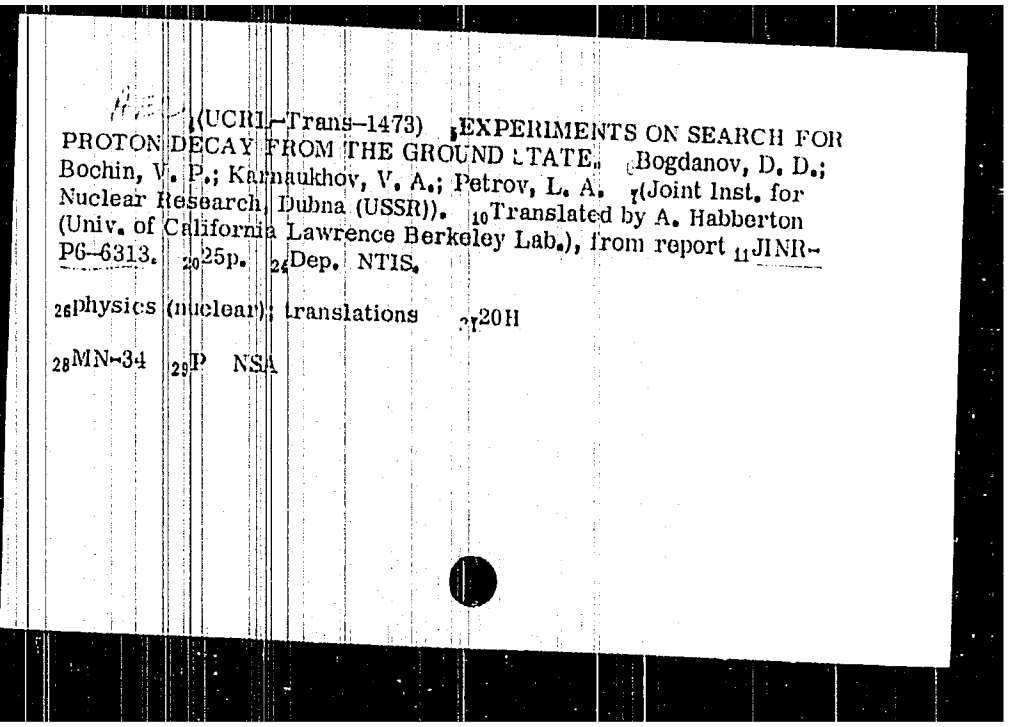
Decay of ^{170}Lu to ^{170}Yb, by N. Bonch-Osmolovskaya, il. Ballund, 58 pp.
RUSSIAN, rpt, JINR-P6-4773.
AEC/UCRL-Tr-10467-70

Sci/Nucl
July 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2



(UCRL-Trans-1473) EXPERIMENTS ON SEARCH FOR PROTON DECAY FROM THE GROUND STATE. Bogdanov, D. D.; Bochin, V. P.; Karmaukhov, V. A.; Petrov, L. A. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by A. Habberton (Univ. of California Lawrence Berkeley Lab.), from report JINR-P6-6313. 25p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Chemical Properties of the Element 104-
Kurchatovium, by I. Zvara, Yu. T. Chuburkov, et
al., 10 pp.
RUSSIAN, rpt. JINR-D7-3548, 1967, pp 19-23.
AEC-ANL-Tr 632 P911252568-V

Sci/Chem
Oct 68

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Mass Distribution of the Fission Fragments of the Bismuth and Uranium Nuclei by Heavy Ions, by S. A. Karamyan, F. Normuratov, 14 pp. RUSSIAN, rpt, JINR-P7-3732, 1968. AEC/ANL-Tr-747-69

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Oct 69

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Experiments on the Chemistry of Element 104, Kurchatovium 111. Chemical Equipment in a Cyclotron Beam, by Yu. T. Chuburkov.
RUSSIAN, rpt, JINR-P7-4021, 1968.
*AEC/AEN

Sci/Chem
Apr 69

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Electron Beam Multicharged Ion Source, by
E.D. Donets, V.I. Iiyushchenko.
RUSSIAN, rpt, JINR-P7-4124, 21 pages,
ANL-Trans-721

July 69

384-708

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Perspectives in the Synthesis of New Isotopes and Elements, by G. N. Flerov, 20 pp.
RUSSIAN, rpt, JINR-P7-~~4199~~, 1968.
AEC/ANL/Tr-746 4199

Sci/Nucl
Oct 60

393,475

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC 4(KFK-tr-309) 5ALPHA DECAY OF HEAVY NUCLEI. 6Muzychka, Yu. A. 7(Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). 10Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.), from report 11JINR-P7-4435. 20 14p. 22(In German). 24Dep. CFSTI (U. S. Sales Only).

26physics (nuclear); translations 27 20H

28MN-34 29NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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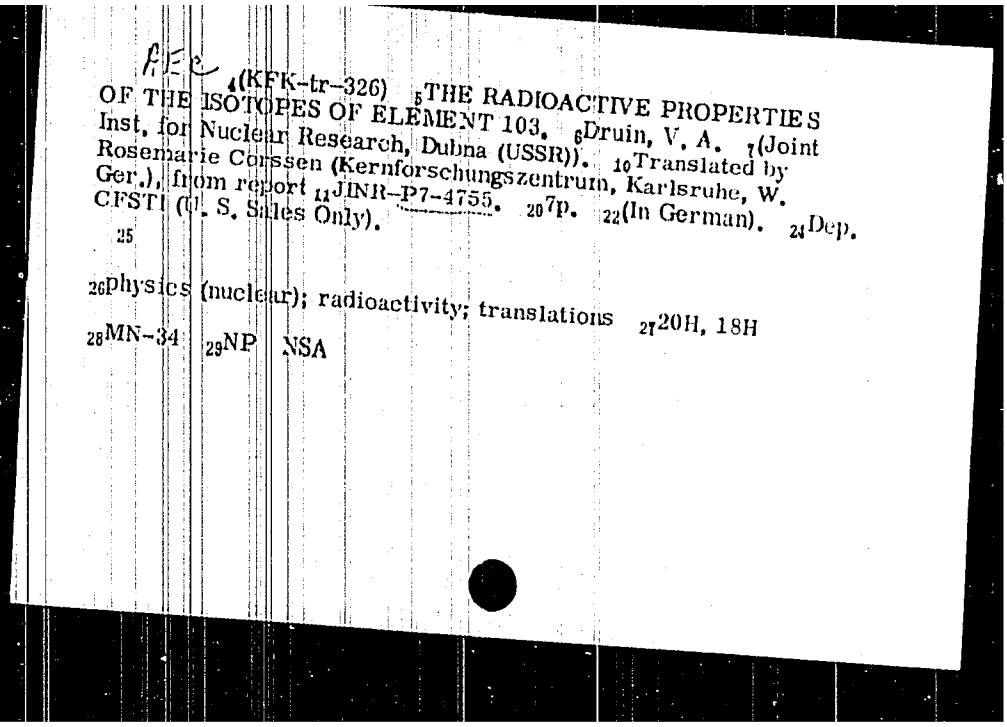

4(KFK-tr-326) 5THE RADIOACTIVE PROPERTIES OF THE ISOTOPES OF ELEMENT 103. 6Druin, V. A. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, W. Ger.), from report 11JINR-P7-4755. 20 7p. 22(In German). 24Dep. CFSTI (U. S. Sales Only).

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26Physics (nuclear); radioactivity; translations 27 20H, 18H

28MN-34 29NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC

4(KFK-tr-327) 5ROLE OF THE alpha-RADIOACTIVE BACKGROUND IN THE INVESTIGATION OF THE DECAY OF ELEMENT 104. 6Akap'ev, G. N.; Druin, V. A.; Rud', V. I.; Sun-Tszin-Yan, G. Ya. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 15Translated by Rosemarine Corssen (Kernforschungszentrum, Karlsruhe, W. Ger.), from report 11JINR-P7-4772, 20[illegible]pp. 22(In German). 24Dep. CFSTI (U. S. Sales Only).

25

26Physics (nuclear); translations 27[illegible]20H

28MN-34 29NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC) 4(KFK-tr-329) 5IDENTIFICATION OF ELEMENTS 102 AND 104 WITH THE HELP OF THE COLLIMATION METHOD. 6Oganesyan, Yu. Ts.; Lobanov, Yu. V.; Tret'yakova, S. P.; Lazarev, Yu. A.; Kolesov, I. V.; Gavrilov, K. A.; Plotko, V. M.; Polubovarinov, Yu. V. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.), from report 11JINR-P7-4797. 20 23p. 22(In German). 24Dep. CFSTI (U. S. Sales Only).

26Chemistry (inorganic); ranslations 27 07B

28MK-- 29NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Uncl (KFK-tr-343) SPONTAEOUS FISSION OF ISOTOPES OF ELEMENTS 103 AND 105. Flerov, G. N.; Oganesyan, Yu. Ts.; Lobanov, Yu. V.; Lazarev, Yu. A.; Tret'yakova, S. P. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.) from report JINR-P7-4932. 8p.

physics; translations

ND-34 NP RC

Unlimited

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Uncl/AEC (KFK-tr-348) SEARCH FOR SPONTANEOUS FISSIONING ISOMERS WITH HALF LIVES IN NANOSECOND RANGE IN REACTION WITH HEAVY IONS. Flerov, G. N.; Gangrskii, Yu. P.; Markov, B. N.; (and others) (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.) from report JINR-P7-5018. 11p.

physics (nuclear); translations

ND-34 NP RC

Unlimited

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

RLC

(KFK-tr-350) INVESTIGATION OF THE alpha DECAY OF ISOTOPES OF ELEMENT 105. Druin, V. A.; Demin, A. G.; Kharitonov, Yu. P.; Akap'ev, G. N.; Rud', V. I.; Sun-Tszin-Yan, G. Ya.; Chelnokov, L. P.; Gavrilov, K. A. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.), from report JINR-P7-5161, 11p. (In German). Dep. NTIS (U. S. Sales Only).

physics (nuclear); translations 20H

MN-34 NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

[4](ANL-Trans-876) [5]MULTICHARGED ION SOURCES.
[6]Vorob'ev, E. D.; Pasyuk, A. S. [7](Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). [10]Translated for Argonne National Lab., Ill., from report [11]JINR-P7-5177. [20]28p.
[23](CONF-700555-1). [24]Dep. NTIS.
[25]From 14. all union conference on emission electronics; Tashkent, USSR (May 1970).

[26]methods and equipment; particle accelerators; translations
[27]14, 20G

[28]MN-28 [29]P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

[redacted]

4(KFK-tr-352) 5EMISSIONS OF 6He THROUGH NUCLEAR FISSION BY HEAVY IONS. 6Pulativ, D. D.; Polikanov, S. M. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.), from report 11JINR-P7-5192. 2012p. 22(In German). 24Dep. NTIS (U. S. Sales Only).

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26Physics (nuclear); translations 27 20H

28MN-34 29NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

(NP-tr-1936) DELAYED FISSION OF SOME NEUTRON-DEFICIENT ATOMIC NUCLEI. Skobelev, N. K. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). Translation of report JINR-P7-5584. 8p.

physics (nuclear); translations 20H

MN-34 NP NSA

REVISED CARD

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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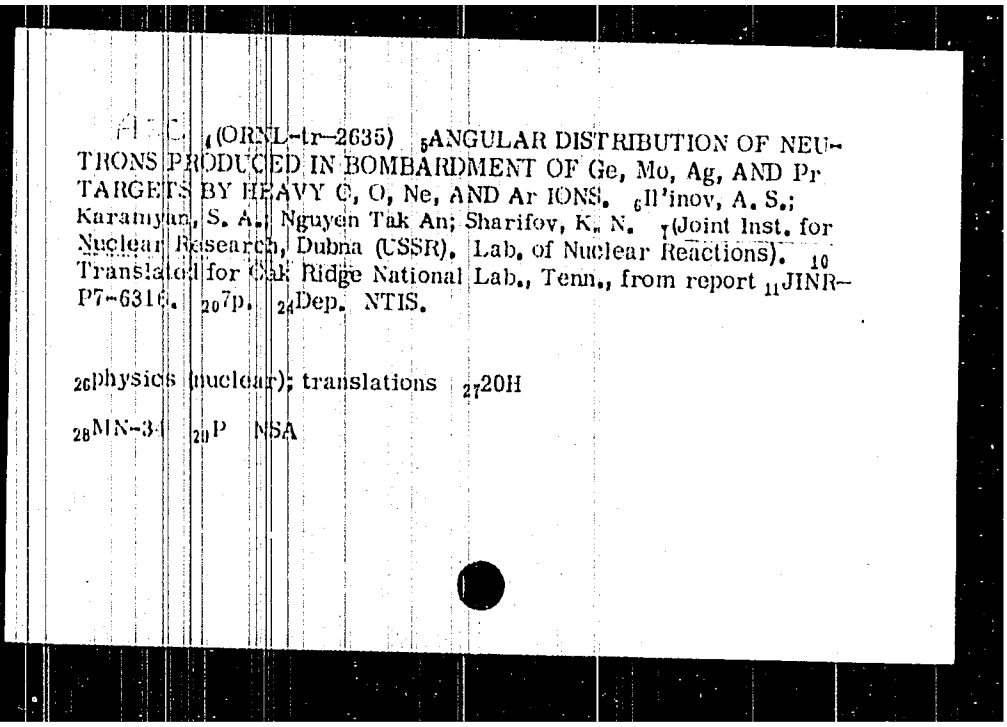

AEC (ORNL-tr-2635) ANGULAR DISTRIBUTION OF NEUTRONS PRODUCED IN BOMBARDMENT OF Ge, Mo, Ag, AND Pr TARGETS BY HEAVY C, O, Ne, AND Ar IONS. Il'inov, A. S.; Karamyan, S. A.; Nguyen Tak An; Sharifov, K. N. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). Translated for Oak Ridge National Lab., Tenn., from report JINR-P7-6316. 20 7p. Dep. NTIS.

physics (nuclear); translations 20H

MN-3 20P NSA

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC (BNL-tr-516) NUCLEAR REACTIONS INDUCED BY XENON IONS AND THE PRODUCTION OF SUPERHEAVY ELEMENTS. Flerov, G. N.; Oganesyan, Yu. Ts. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P7-6523. 30p. Dep. NTIS.

physics (nuclear); translations 20H

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Electrostatic Channel with Periodic Focusing,
by A. A. Glazov, D. L. Novikov.
RUSSIAN, per. JINR-P9-3024-1
AEC ANL-Tr-459

Sci - Elec
Sept 67 342,285

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Formation of the Magnetic Field in the Central Region of the Synchrocyclotron to Increase Vertical Focusing, by V. I. Danilov, V. B. Mukhina, A. N. Safonov.
RUSSIAN,per. JINR-P-9-3181
AEC ANL-Tr-177

Sci - B&M
Sept 67

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Accelerating in a Resonator, A Relativistic Bunch Bearing a Large Charge, by S. B. Rubin, V. N. Mamonov, 58 pp.
RUSSIAN, rpt. JINR-P9-3346-2, 1967.
AEC/UCRL-Tr-1400-69

Sci/Elec
Nov 69

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Influence of Shielding on the Negative-Mass Effect, by I. N. Ivanov, 17 pp.
RUSSIAN, preprint, JINR-P9-3476-2, Aug. 1967.
AEC/UCRL/Tr-1370-68

Sci/Nucl
Feb 69

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Motion of Particles in the "Adgezator", by
I. N. Ivanov, M. L. Iovnovich, et al, 25 pp.
RUSSIAN, per, JINR-P9-4132, Nov 1968.
AEC/UCRL/Tr-1390-69

Sci/Nucl
Jun 69

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Focusing of a Charged Electron Ring in the Collective Ion Linear Accelerator, by A. G. Bonch-Osmolovskiy. 10 pp. GERMAN, rpt, JINR-P9-4135. AEC-KFK-tr-297

Sci-Phys
Oct 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Stability of an Electron-Ion Ring, by
A. G. Bonch-Osmolovskiy, I. N. Ivanov, et al,
12 pp.
RUSSIAN, rpt, JINR-P9-4138, Nov 1968.
AEC-UCRL-Tr-1392-69

Sci/Nucl
Jun 69

382,695

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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System for Accelerating an Ion-Loaded Electron Ring, by A. G. Bonch-Osmolovskiy, G. V. Dolbilov, 23 pp. RUSSIAN, rpt, JINR-P9-4171, Nov 1968. AEC/UCRL-Tr-1394-69

Sci/Nucl
Oct 69

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Acceleration of Multiple Charged Ions by the Collective Method, by M. L. Iovnvich, N. B. Rubin.
RUSSIAN, rpt, JINR-P9-4257. 11 pp.
AEC-UCRL-Trans-1395

Sci-Phys
Aug 69 390,019

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Stationary State of a Polarized Self-Focusing Ring (Acceleration of an Electron-Ion Bunch), by Ye. A. Perelshteyn, 26 pp.
RUSSIAN, rpt, JINR-P9-4423, 1969.
AEC/UCRL-Tr-1401-69

Sci/Phy
Mar 70

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Longitudinal Instabilities in Circular Charged Beams, Part I. Effect of Negative Mass, by A. G. Bonch-Osmolovskii
RUSSIAN, rpt, JINR-P9-4424, 1969.
AEC/UCRL-Tr-1402-69

Sci/Nucl
Jun 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Longitudinal Instabilities in Circular Charged Beams. Part II. Radiative Instability, by A. S. Borgh-Osmolovskii, 14 pp.
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Sci/Phy
Jun 70

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One More Possible Method of Heavy Ion Acceleration,
by N. I. Tarantin, 10 pp.
RUSSIAN, rpt, JINR-P9-4555, 1969, pp 1-13.
AEC/ANL-Tr-805-70

Sci/Phy
Apr 70

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The Use of the Existing Charged Heavy-Particle Accelerators and the Possibilities of Creating new Domestic Gnews for Radiation Therapy, by V. P. Dzhelepov, L. L. Gol'din, RUSSIAN, rpt, JINR-P9-4560, April 1969. AEC/UCRL-Tr-1422-70

Sci/Nucl
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4AEC (UCRL-Trans-1426) 5STUDY OF THE NEGATIVE-MASS EFFECT IN THE "ADGEZATOR" MODEL. 6Ryltsev, P. I.; Sarantsev, V. P.; Fartushnyi, V. P. 7(Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of High Energy). 8 10 Translated for Univ. of California Lawrence Radiation Lab., Berkeley, from report 11JINR-P9-4620. 20 33p. 24Dep. NTIS.

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26Physics (particle); translations 27 20H

28MN-34 29P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Uncl (KFK-tr-342) EXTRACTION OF AN ELECTRON RING FROM THE "ADGEZATOR". Reshetnikova, K. A.; Sarantsev, V. P. (Joint Inst. for Nuclear Research, Dubna (USSR). Translated by Rosemarie Corssen (Kerforschungszentrum, Karlsruhe, Ger.) from report JINR-P9-4678, 13p.

physics (particle); translations

ND-34 NP RC

Unlimited

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Cryogenic High-Frequency Accelerating System for a Ringotron, by N. G. Anisichenko, A. S. Alekseyev, 13 pp.
RUSSIAN, rpt, JINR-P9-4722, 1969.
AEC/SLAC-Tr-111-70

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Apr 70

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Coherent Energy Losses of a Relativistic Bunch in Linear Accelerating Systems, by A. B. Kuznetsov, S. B. Rubin, 10 pp.
RUSSIAN, rpt, JINR-P9-4728, Oct 1969
AEC/UCRL-Tr-1407

/sci/Nucl
May 70

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The "Squirrel-Cage" System of Focussing an Electron Ring in a Collective Linear Ion Accelerator, by G. V. Dolbilov, I. N. Ivanov, 8 pp. RUSSIAN, Rpt, JINR-P9-4737. AEC/UCRL-Tr-1408-70

Sci/Nucl
Jul 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

(UCRL--Trans-1440) ELECTRON-ION BUNCH DIAGNOSTICS BY MEANS OF BREMSTRAHLUNG. Iovnovich, M. L.; Sarantsev, V. P.; Fiks, M. M. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated for Univ. of California Lawrence Radiation Lab., Berkeley, from report JINR-P9-4850. 8p. Dep. NTIS.

particle accelerators; translations 20G

MN-28 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

(UCRL-Trans-1442) RELATIVISTIC SOLITONS AND NONLINEAR WAVES AS BUNCHES FOR COHERENT ACCELERATION. Tsytovich, V. N. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated for Univ. of California Lawrence Radiation Lab., Berkeley, from report JINR-P9-5090. 14p. Dep. NTIS.

particles accelerators; translations 20G

MN-28 P NSA

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[redacted]

4(UCRL-Trans-1443) 5COLLECTIVE BEAM ACCELERATION. 6Tsytovich, V.N. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated for Univ. of California Lawrence Radiation Lab., Berkeley, from report 11JINR-P9-5091. 20 10p. 24Dep. NTIS.

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26particle accelerators; translations 27200

28MN-2[redacted] 29P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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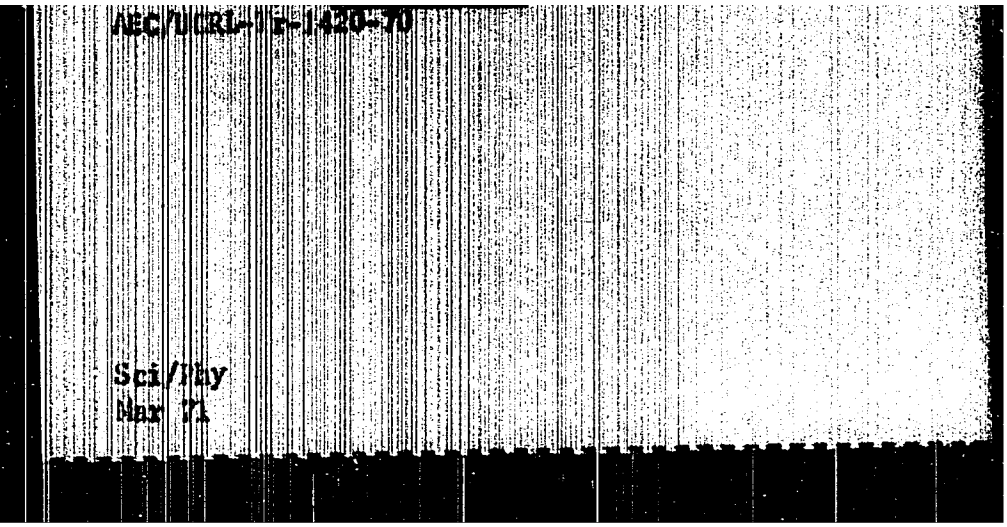

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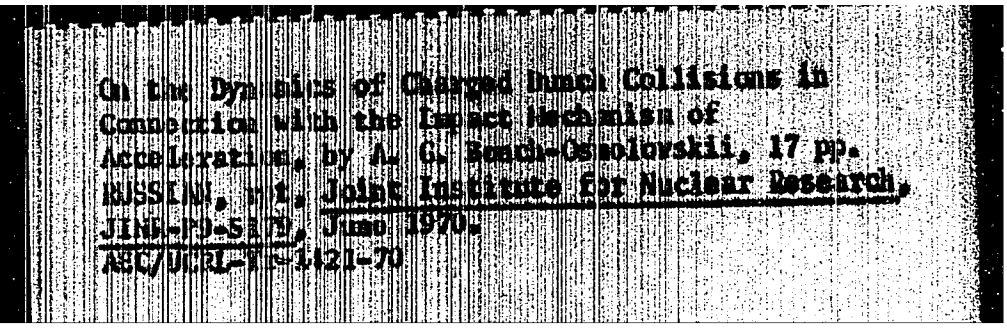
On the Dynamics of Charged Bunch Collisions in
Connection with the Impact Mechanism of
Acceleration, by A. G. Bonch-Osmolovskii, 17 pp.
RUSSIAN, Joint Institute for Nuclear Research,
JINR-P9-5179, June 1970.
AEC/UCRL-Trans-1421-70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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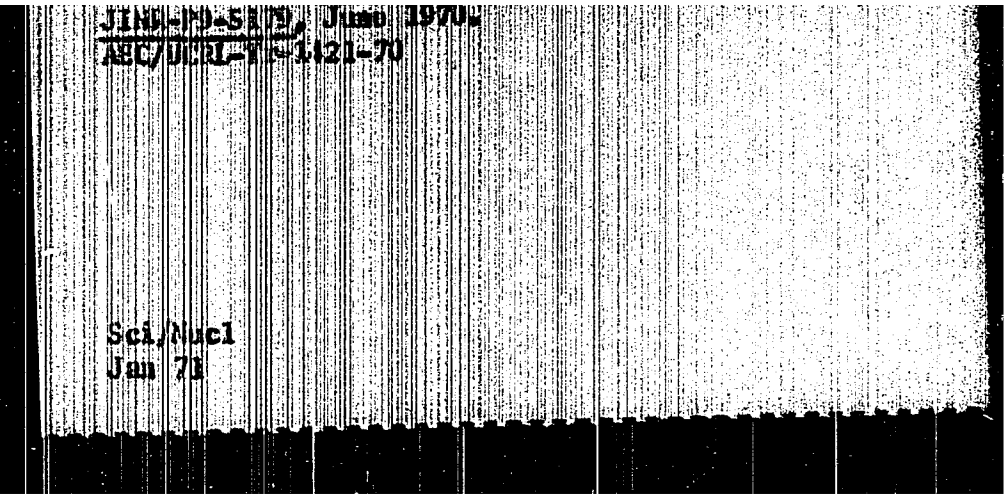

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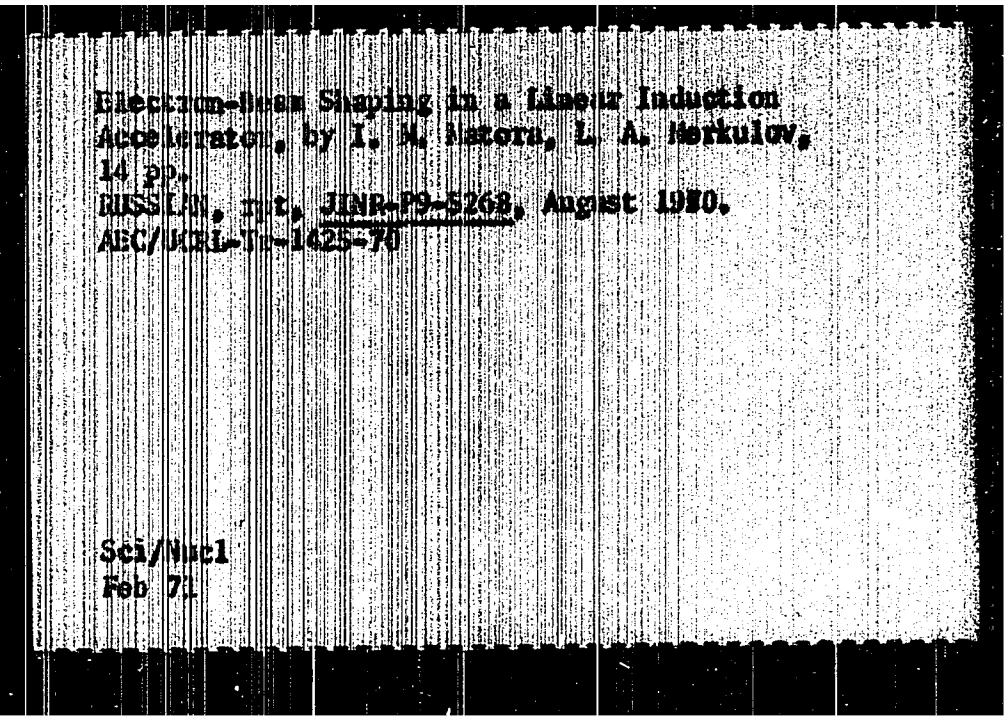

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[4](BNL-tr-431) [5]ACCELERATION AND EXTRACTION OF DEUTERONS FROM THE JINR PROTON SYNCHROTRON. [6]Baldin, A. M.; (and others) [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report [11]JINR-P9-5442. [20]8p. [24]Dep. NTIS.

[25]

[26]particle accelerators; translations [27]20G

[28]MN-28 [29]P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

4(UCRL-Trans-1441) 5ON THE QUESTION OF DECELERATION OF A RELATIVISTIC CHARGE DURING ITS TRANSIT PAST AN IDEALLY CONDUCTING OBSTACLE. 6Kuznetsov, A. B.; Rubin, S. V. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by G. Brodell (Univ. of California, Lawrence Radiation Lab., Berkeley), from report 11JINR-P9-5247. 20 19p. 24Dep. NTIS.

26particle accelerators; translations 21I20G

28MN-28 29P NSA

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AEC [4](UCRL-Trans-1446) [5]CHARGED RELATIVISTIC ELECTRON RINGS IN A HELICAL MAGNETIC FIELD. [6]Bonch-Osmolovskii, A. G. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated by G. Brodell and L. J. Laslett for Univ. of California Lawrence Radiation Lab., Berkeley, from report [11]JINR-P9-5299. [20]21p. [24]Dep. NTIS.

[25]

[26]physics (particle); translations [27]20H

[28]MN-34 [29]P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

AEC (UCRL-Trans-1434) EXPERIMENTS ON ACCELERATION OF alpha-PARTICLES BY THE COLLECTIVE METHOD. Sarantsev, V. P.; Rasherskii, V. P.; Kaminskii, A. K.; Mironov, V. I.; Farushnyi, V. P.; Sergeev, A. P.; Novikov, V. G.; Tyutyunnikov, S. I.; Kaminskaya, A. M. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by G. Brodell for Univ. of California Lawrence Radiation Lab., Berkeley, from report JINR-P9-3558. 19p. Dep. NTIS.

particle accelerators; translations 20G

MN-25 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

[illegible] [4](UCRL-Trans-1453) [5]NUMERICAL ANALYSIS OF THE NONLINEAR STAGE OF DEVELOPMENT OF THE RADIATIVE INSTABILITY OF RELATIVISTIC ELECTRON RINGS. [6]Bonch-Osmolovskii, A. G.; Makhan'kov, V. G.; Tsytovich, V. N.; Shchinov, B. G. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated by B. Thayne for Univ. of California, Lawrence Radiation Lab., Berkeley, from report [11]JINR-P9-5622. [20]26p. [24]Dep. NTIS.

[26]particle accelerators; translations [27]20G

[28]MN-28 [29]P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Vakhrushin, Yu. P., et al.
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[illegible] (UCRL-Trans-1456) ON THE STATIONARY STATE OF A CHARGED SELF-FOCUSING BEAM OF HIGH CURRENT. Bonch-Osmolovskii, A. G.; Surovtsev, Yu. S. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by G. Brodel (Univ. of California, Lawrence Berkeley Lab., Berkeley), from report JINR-P9-5857. 13p. Dep. NTIS.

particle accelerators; physics (plasma); translations 20G, 20I

MN-34 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

Beam Focusing in the Electron-Conductor of the Collective Accelerator Model, by A. P. Belysev. RUSSIAN, rpt, JINR-P9-6081, Oct 1971.
*AEC/UCRL-1470

April 72

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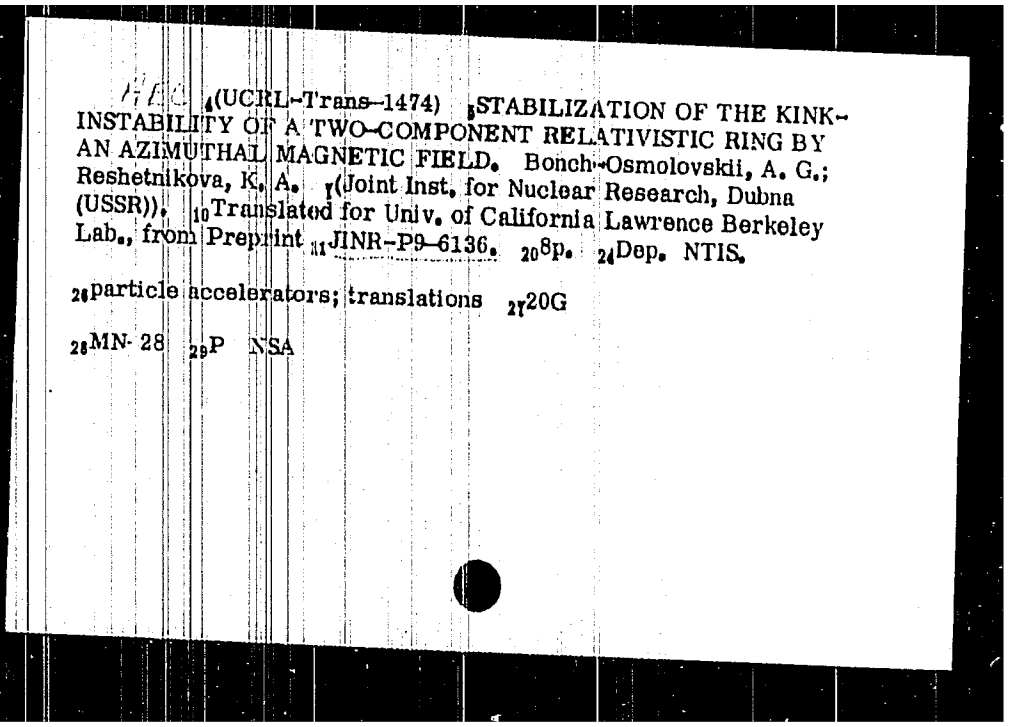

4(UCRL-Trans-1474) 5STABILIZATION OF THE KINK-INSTABILITY OF A TWO-COMPONENT RELATIVISTIC RING BY AN AZIMUTHAL MAGNETIC FIELD. Bonch-Osmolovskii, A. G.; Reshetnikova, K. A. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated for Univ. of California Lawrence Berkeley Lab., from Preprint 11JINR-P9-6136. 20 8p. 24Dep. NTIS.

26particle accelerators; translations 27 20G

28MN-28 29P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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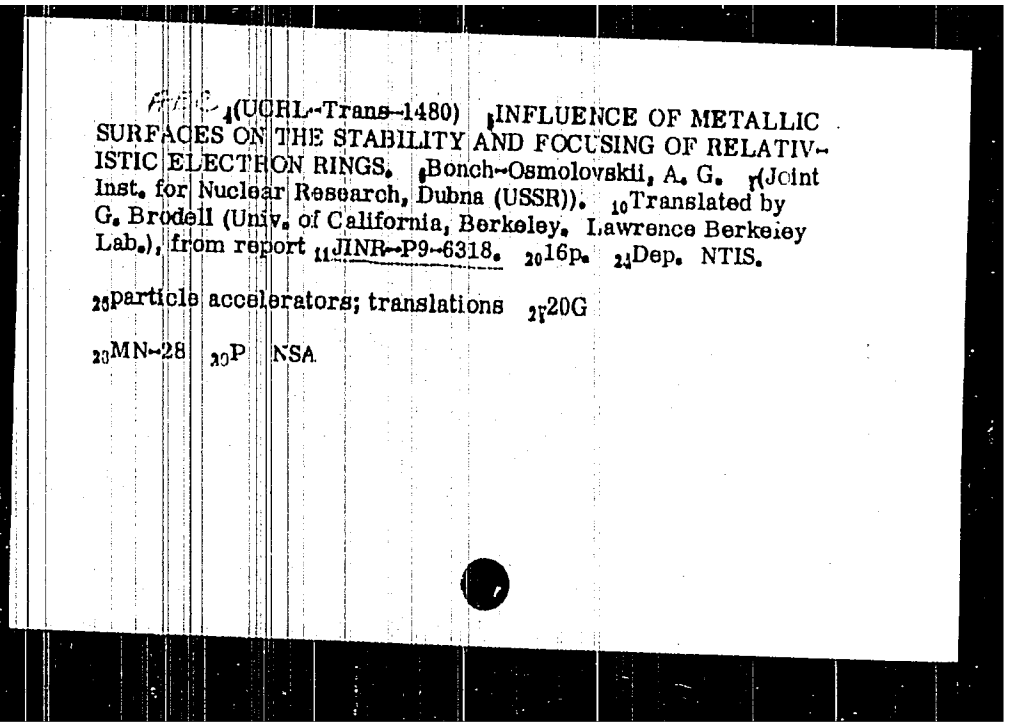

(UCRL-Trans-1480) INFLUENCE OF METALLIC SURFACES ON THE STABILITY AND FOCUSING OF RELATIVISTIC ELECTRON RINGS. Bonch-Osmolovskii, A. G. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by G. Brodell (Univ. of California, Berkeley. Lawrence Berkeley Lab.), from report JINR-P9-6318. 16p. Dep. NTIS.

particle accelerators; translations 20G

MN-28 P NSA

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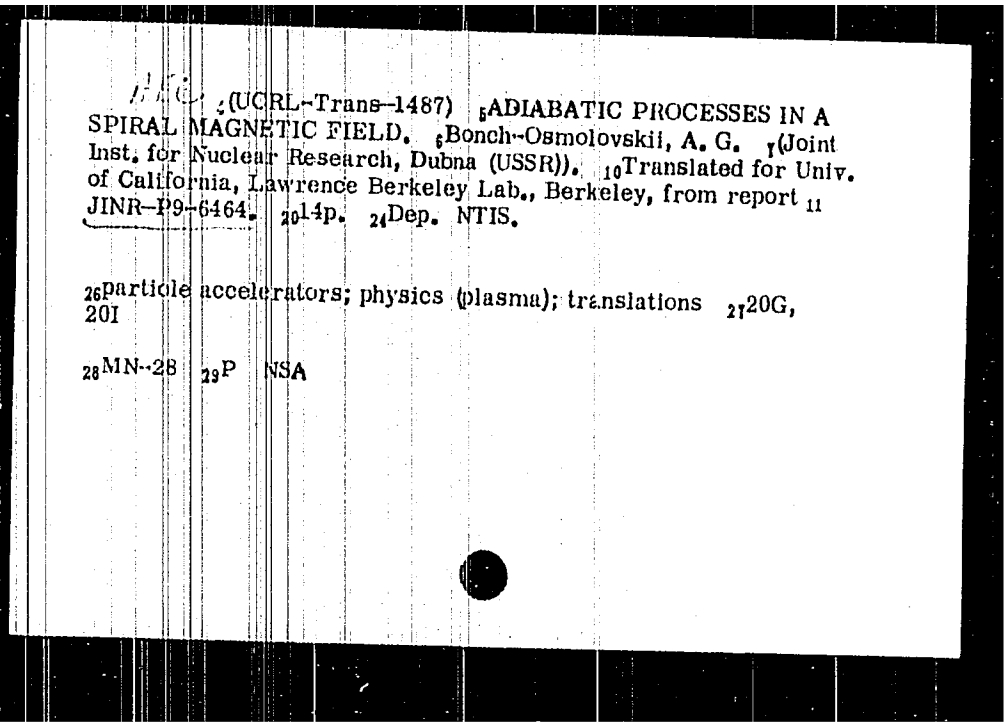

(UCRL-Trans-1487) ADIABATIC PROCESSES IN A SPIRAL MAGNETIC FIELD. Bonch-Osmolovskii, A. G. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated for Univ. of California, Lawrence Berkeley Lab., Berkeley, from report JINR-P9-6464. 14p. Dep. NTIS.

particle accelerators; physics (plasma); translations 20G, 20I

MN-28 P NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Separation of the Rare-earth Elements with the Aid of Gas Chromatography of Their Chlorides, by T. S. Zvarova.
RUSSIAN, mst, JINR-P12-4504, 14 pp.
AEC-ANL-Trans-789

Sci-Chem
Sep 70

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Increasing the Discharge Time in a Spark Chamber to 10 to 100 MSEC, by YU. K. Akimov.
RUSSIAN, rpt, JINR-D13-3064.
AEC-NP-tr-1810

Sci-Mech
Aug 69

390,005

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Resonator of a Proton Multiple Acceleratin
System in the JINR Synchrophasotron, by V. A.
Vagin, V. D. Kolodin, A. P. Saenko, I. N.
Semenyushkin, V. O. Stepanyuk.
RUSSIAN, per, JINR-P13-3084.
AEC ANL-Tr-460

Sci - B&M
Sept 67

342,286

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AEC (BNL-tr-346) FORMING AND TRAPPING OF A GASEOUS HYDROGEN JET IN A VACUUM. Zolin, L. S.; Nikitin, V. A.; Pilipenko, Yu. K. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report JINR-P13-3425. 26p. Dep. CFSTI.

particle accelerators; translations 20G

MN-28 P NSA

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On the Optical Anisotropy of the Safety Glass in the 5-litre Hydrogen Bubble Chamber, by A. Lapletal, 31 pp.
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AEC/NP-Tr-1785-69

Sci/Phy
Sept 69

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AEC/NP-Tr-1781-69

Sci/Nucl
Oct 69

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Mech
July 69

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Uncl (KFK-tr-347) GAS FILLED MASS SEPARATOR FOR INVESTIGATION OF THE PRODUCTS OF HEAVY ION REACTIONS. Bacho, I.; Bogdanov, D. D.; Darotsi, Sh.; (and others) (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Reactions). Translated by Rosemarie Corssen (Kernforschungszentrum, Karlsruhe, Ger.) from report JINR-P13-4453. 27p.

physics (particle); translations

ND-34 NP RC

Unlimited

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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Effect of Ultrasound on Formation of Ionizing-Particle Tracks in a Liquid-Hydrogen Bubble Chamber, by V. A. Akulichev, L. R. Gavrilov, 17 pp. RUSSIAN, ppr, JINR-P13-4702, 1969. AEC/SLAC-Tr-110-70

Sci/Phy
Apr 70

405,650

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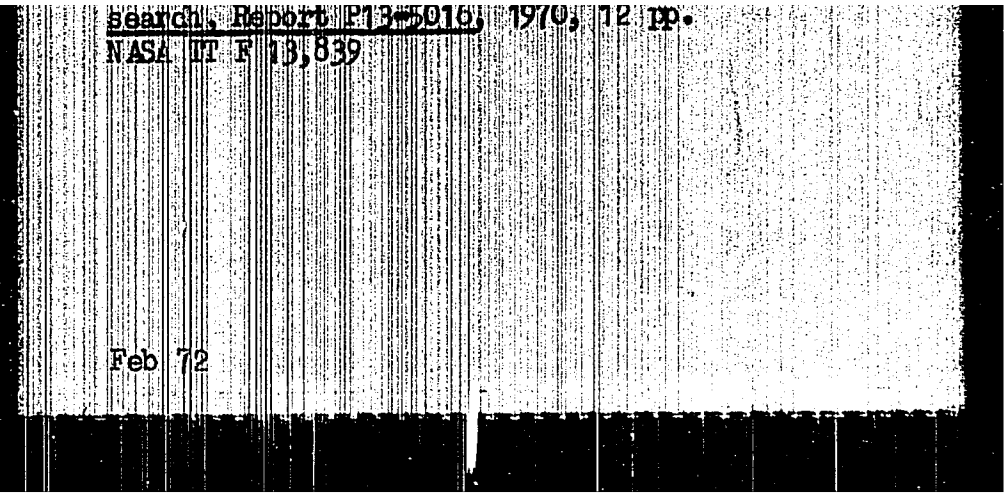

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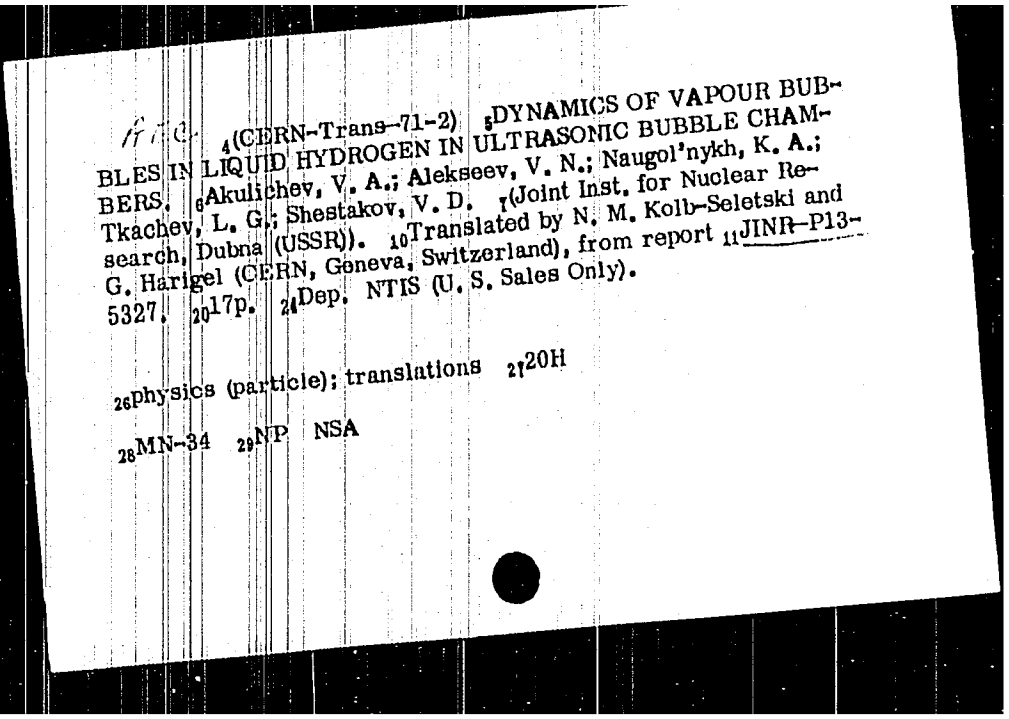

AEC 4(CERN-Trans-71-2) 5DYNAMICS OF VAPOUR BUBBLES IN LIQUID HYDROGEN IN ULTRASONIC BUBBLE CHAMBERS. 6Akulichev, V. A.; Alekseev, V. N.; Naugol'nykh, K. A.; Tkachev, L. G.; Shestakov, V. D. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by N. M. Kolb-Seletski and G. Harigel (CERN, Geneva, Switzerland), from report 11JINR-P13-5327. 20 17p. 24Dep. NTIS (U. S. Sales Only).

26physics (particle); translations 27 20H

28MN-34 29NP NSA

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(CERN-Trans-71-25) ELECTRIC DISCHARGE OF GAS BUBBLES IN LIQUIDS. Pisarev, A. F.; Selivanov, G. I.; Balandin, M. P.; Lytkin, L. K. (Joint Inst. for Nuclear Research, Dubna (USSR)). Translated by R. Luther (CERN, Geneva, Switzerland), from report JINR-P13-5277. 11p. Dep. NTIS (U. S. Sales Only).

instrumentation, translations 18D

MN-37 NP NSA

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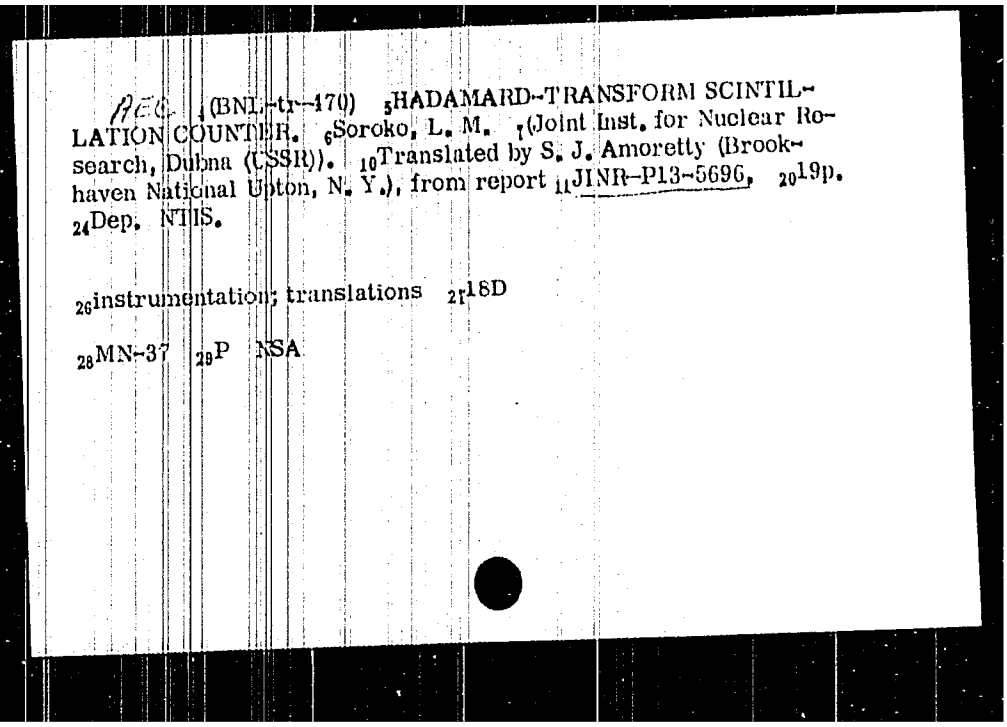

REC. 1(BNL-tr-170) 5HADAMARD-TRANSFORM SCINTILLATION COUNTER. 6Soroko, L. M. 7(Joint Inst. for Nuclear Research, Dubna (USSR)). 10Translated by S. J. Amoretty (Brookhaven National Upton, N. Y.), from report 11JINR-P13-5696, 2019p. 24Dep. NTIS.

26instrumentation; translations 27I8D

28MN-37 29P NSA

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[illegible] (LA-tr-71-77) TRACK CHAMBER WITH CHARGE MULTIPLICATION INSIDE THE FILM ELECTRODES. Nikanorov, V. I.; Pisarev, A. F.; Selivanov, G. I. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Problems). Translated by Helen Dahlby (Los Alamos Scientific Lab., N. Mex.), from report JINR-P13-5780. 12p. Dep. NTIS.

instrumentation; translations 18D

MN-37 P NSA

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[4](LA-tr-71-78) [5]NEW METHODS OF DETECTING PARTICLE TRACKS IN LIQUID AND SOLID MEDIA. [6]Nikanorov, V. I.; Pisarev, A. F.; Selivanov, G. I. [7](Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Problems). [10]Translated by Helen Dahlby (Los Alamos Scientific Lab., N. Mex.), from report [11]JINR-P13-5782. [20]19p. [24]Dep. NTIS.

[26]instrumentation; translations [27]18D

[28]MN-37 [29]P NSA

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AEC (CERN-Trans-72-6) VAPOR BUBBLE DYNAMICS IN HYDROGEN BUBBLE CHAMBERS. Tkachev, L. G.; Shestakov, V. D. (Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Nuclear Problems). Translated by N. M. Harigel and G. Harigel (CERN, Geneva), from report JINR-P13-6037. 24p. Dep. NTIS (U. S. Sales Only).

instrumentation; physics; translations 18I, 20

MN-37 NP NSA

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301710040-2

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[redacted] [4](BNL-tr-465) [5]FORMING IN A VACUUM A JET TARGET FROM CONDENSED HYDROGEN. [6]Bartenev, V. D.; Valevich, A. I.; Pilipenko, Yu. K.; Smelyanskii, V. V. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report [11]JINR-P13-6058. [20]20p. [21]Dep. NTIS.

[26]particle accelerators; translations [27]20G

[28]MN-28 [29]P NSA

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NTC-73-14391-1520

[illegible] [4](BNL-tr-482) [5]INVESTIGATION OF THE SPECTRA OF gamma-RAYS LEADING TO THE PRODUCTION OF SPONTANEOUSLY FISSIONING ^{236}U ISOMER. [6]Gangrskii, Yu. P.; Dalkhsuren, B.; Markov, B. N.; Nad, T.; Laitai, A.; Vinnai, I.; Ieki, L.; Kluge, G. [7](Joint Inst. for Nuclear Research, Dubna (USSR)). [10]Translated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.), from report [11]JINR-P15-6147. [20]13p. [24]Dep. NTIS.

[26]physics (nuclear); translations [27]20H

[28]MN-34 [29]P NSA

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